

=> fil reg; d stat que l8; fil capl; d que nos l10; fil marpat; d que nos l14; dup  
rem l10,l14

FILE 'REGISTRY' ENTERED AT 15:48:29 ON 26 AUG 2008

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STRUCTURE FILE UPDATES: 25 AUG 2008 HIGHEST RN 1043631-35-1

DICTIONARY FILE UPDATES: 25 AUG 2008 HIGHEST RN 1043631-35-1

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

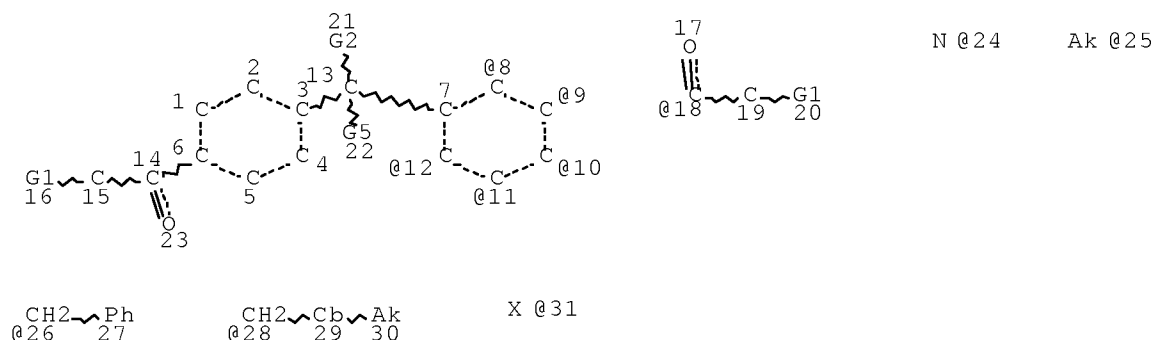
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L5

STR



VAR G1=O/24

VAR G2=31/O/24/S

VAR G5=H/25/26/28/PH

VPA 18-8/9/10/11/12 U

NODE ATTRIBUTES:

NSPEC IS RC AT 15

NSPEC IS RC AT 19

NSPEC IS RC AT 24

CONNECT IS E1 RC AT 25

CONNECT IS E1 RC AT 30

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 25 29 30 31

GGCAT IS MCY LOC UNS AT 29

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE  
L8 14 SEA FILE=REGISTRY SSS FUL L5

100.0% PROCESSED 7398 ITERATIONS 14 ANSWERS  
SEARCH TIME: 00.00.01

FILE 'CAPLUS' ENTERED AT 15:48:29 ON 26 AUG 23008  
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FILE COVERS 1907 - 26 Aug 2008 VOL 149 ISS 9  
FILE LAST UPDATED: 25 Aug 2008 (20080825/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>  
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L5 STR  
L8 14 SEA FILE=REGISTRY SSS FUL L5  
L10 1 SEA FILE=CAPLUS ABB=ON L8

FILE 'MARPAT' ENTERED AT 15:48:29 ON 26 AUG 2008  
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FILE CONTENT: 1961-PRESENT VOL 149 ISS 7 (20080822/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES  
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 20080167493 10 JUL 2008  
 DE 102007009957 03 JUL 2008  
 EP 1939208 02 JUL 2008  
 JP 2008159496 10 JUL 2008  
 WO 2008086729 24 JUL 2008  
 GB 2444641 11 JUN 2008  
 FR 2910897 04 JUL 2008  
 RU 2330028 27 JUL 2008  
 CA 2615024 14 JUN 2008

Expanded G-group definition display now available.

Effective December 15th the iteration and answer limits in MARPAT have increased from 100,000 to 200,000 for both on-line and batch searches. For more information on MARPAT search limits, type HELP SLIMITS at an arrow prompt.

L5 STR  
 L13 37 SEA FILE=MARPAT SSS FUL L5  
 L14 18 SEA FILE=MARPAT ABB=ON L13/COMPLETE

FILE 'CAPLUS' ENTERED AT 15:48:29 ON 26 AUG 2008  
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 PROCESSING COMPLETED FOR L10  
 PROCESSING COMPLETED FOR L14  
 L15 18 DUP REM L10 L14 (1 DUPLICATE REMOVED)  
 ANSWER '1' FROM FILE CAPLUS  
 ANSWERS '2-18' FROM FILE MARPAT

=> d ibib abs hitstr 1;d ibib abs qhit 2-18; fil hom

L15 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1  
 ACCESSION NUMBER: 2004:996227 CAPLUS Full-text  
 DOCUMENT NUMBER: 141:425384  
 TITLE: Aromatic  $\alpha$ -hydroxy ketones,  $\alpha$ -alkoxy  
 ketones, and  $\alpha$ -amino ketones for photoinitiators  
 INVENTOR(S): Sommerlade, Reinhard H.; Huesler, Rinaldo; Ilg,  
 Stephan; Fuchs, Andre; Boulmaaz, Souad; Birbaum,  
 Jean-Luc  
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.  
 SOURCE: PCT Int. Appl., 128 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------|------|----------|-----------------|----------|
| -----         | ---- | -----    | -----           | -----    |
| WO 2004099262 | A1   | 20041118 | WO 2004-EP50689 | 20040504 |

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 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004236436 A1 20041118 AU 2004-236436 20040504  
 CA 2522014 A1 20041118 CA 2004-2522014 20040504  
 EP 1620475 A1 20060201 EP 2004-741507 20040504

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

BR 2004010118 A 20060523 BR 2004-10118 20040504  
 CN 1784429 A 20060607 CN 2004-80011984 20040504  
 JP 2006525399 T 20061109 JP 2006-505585 20040504  
 NZ 543895 A 20080328 NZ 2004-543895 20040504  
 US 20060270748 A1 20061130 US 2005-552952 20051013  
 MX 2005PA11543 A 20051214 MX 2005-PA11543 20051027  
 IN 2005CN03288 A 20070928 IN 2005-CN3288 20051206

PRIORITY APPLN. INFO.: EP 2003-405318 A 20030506  
 WO 2004-EP50689 W 20040504

OTHER SOURCE(S): MARPAT 141:425384

AB Ketones with lower volatility than Irgacure 2959, useful for curing of coatings and inks, have 1-10 methylenebis(carbonylphenyl) groups with hydroxy, alkoxy, or amino groups substituted on a tertiary C alpha to the carbonyl groups and a heteroatom such as O, Cl, Br, N, and S bonded to the methylene group, such as bis[4-(2-hydroxy-2-methylpropionyl)phenyl]methano 1 (I). I was manufactured by Friedel-Crafts reaction of diphenylmethane with isobutyroyl chloride, bromination of the resulting intermediate with Br in CCl<sub>4</sub>, and hydrolysis of the resulting bis[4-(2-bromo-2-methylpropionyl)phenyl]bromomethane in water-dioxane mixture in presence of Bu<sub>4</sub>NBr and NaOH.

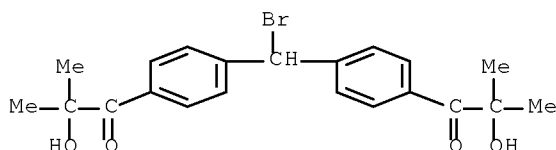
IT 793686-11-0P, Bis[4-(2-hydroxy-2-methylpropionyl)phenyl]bromomethane 793686-12-1P, Bis[4-(2-hydroxy-2-methylpropionyl)phenyl]methoxymethane 793686-14-3P, Bis[4-(2-hydroxy-2-methylpropionyl)phenyl]chloromethane 793686-15-4P 793686-16-5P 793686-17-6P 793686-18-7P 793686-19-8P 793686-20-1P 793686-21-2P 793686-22-3P 793686-27-8P

RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)

(aromatic  $\alpha$ -hydroxy ketones,  $\alpha$ -alkoxy ketones, and  $\alpha$ -amino ketones for photoinitiators with low volatility for curing of inks and coatings)

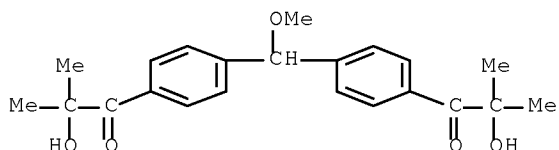
RN 793686-11-0 CAPLUS

CN 1-Propanone, 1,1'-[(bromomethylene)di-4,1-phenylene]bis[2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



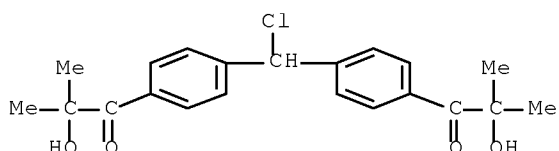
RN 793686-12-1 CAPLUS

CN 1-Propanone, 1,1'-[(methoxymethylene)di-4,1-phenylene]bis[2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



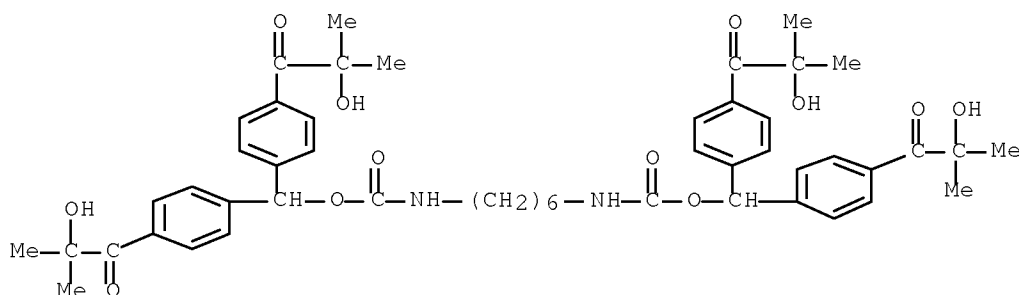
RN 793686-14-3 CAPLUS

CN 1-Propanone, 1,1'-[(chloromethylene)di-4,1-phenylene]bis[2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



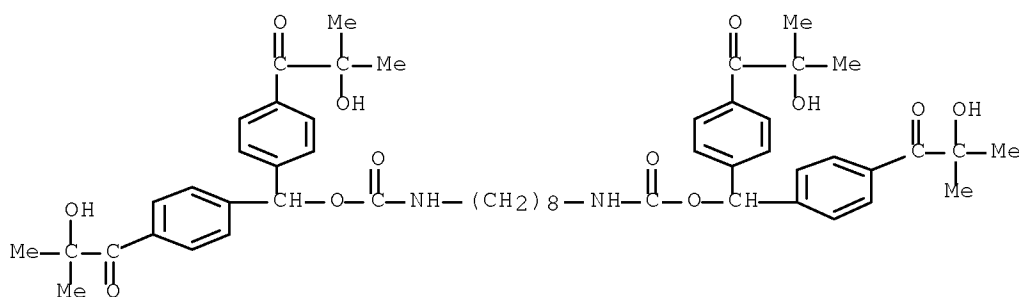
RN 793686-15-4 CAPLUS

CN Carbamic acid, 1,6-hexanediylbis-, bis[bis[4-(2-hydroxy-2-methyl-1-oxopropyl)phenyl]methyl] ester (9CI) (CA INDEX NAME)



RN 793686-16-5 CAPLUS

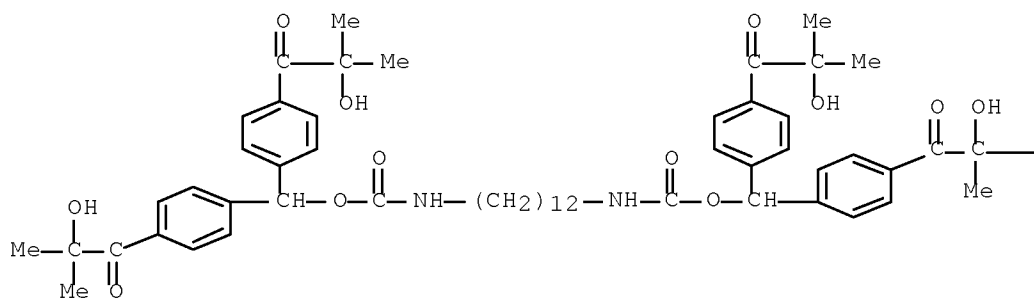
CN Carbamic acid, 1,8-octanediylbis-, bis[bis[4-(2-hydroxy-2-methyl-1-oxopropyl)phenyl]methyl] ester (9CI) (CA INDEX NAME)



RN 793686-17-6 CAPLUS

CN Carbamic acid, 1,12-dodecanediylbis-, bis[bis[4-(2-hydroxy-2-methyl-1-oxopropyl)phenyl]methyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



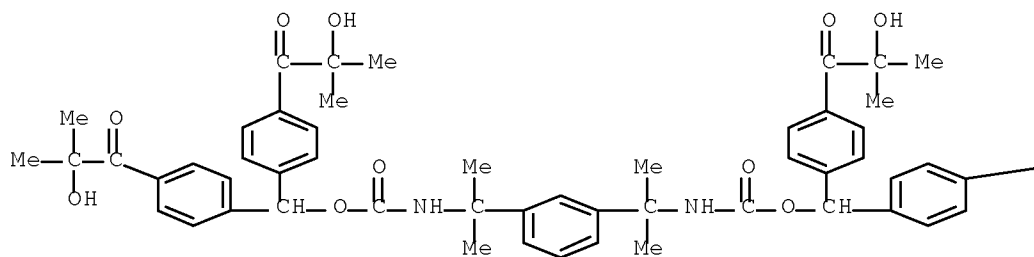
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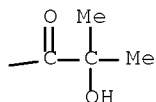
RN 793686-18-7 CAPLUS

CN Carbamic acid, [1,3-phenylenebis(1-methylethylidene)]bis-, bis[bis[4-(2-hydroxy-2-methyl-1-oxopropyl)phenyl]methyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A

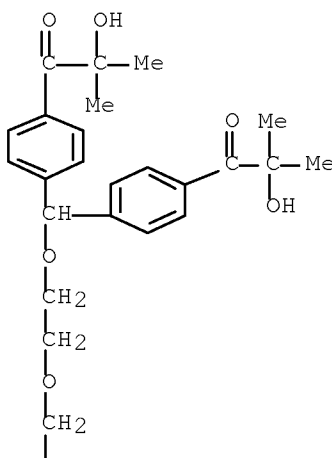


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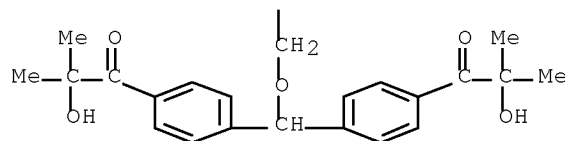


RN 793686-19-8 CAPLUS  
 CN 1-Propanone, 1,1',1'',1'''-[oxybis(2,1-ethanediylloxymethylidynedi-4,1-phenylene)]tetrakis[2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

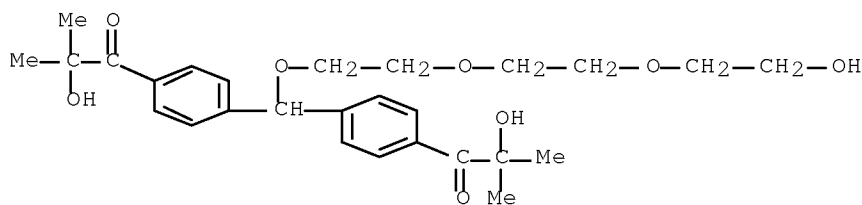
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PAGE 2-A

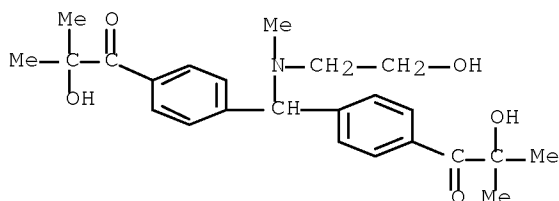


RN 793686-20-1 CAPLUS  
 CN 1-Propanone, 1,1'-[[[2-[2-(2-hydroxyethoxy)ethoxy]ethoxy]methylene]di-4,1-phenylene]bis[2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



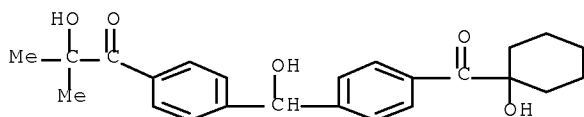
RN 793686-21-2 CAPLUS

CN 1-Propanone, 1,1'-[[[2-hydroxyethyl)methylamino]methylene]di-4,1-phenylene]bis[2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



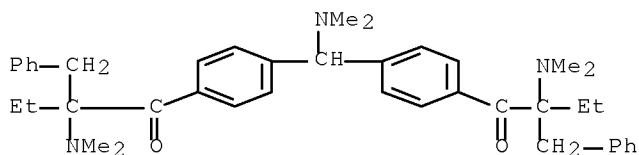
RN 793686-22-3 CAPLUS

CN 1-Propanone, 2-hydroxy-1-[4-[hydroxy[4-[(1-hydroxycyclohexyl)carbonyl]phenyl)methyl]phenyl]-2-methyl- (CA INDEX NAME)



RN 793686-27-8 CAPLUS

CN 1-Butanone, 1,1'-[[[(dimethylamino)methylene]di-4,1-phenylene]bis[2-(dimethylamino)-2-(phenylmethyl)- (9CI) (CA INDEX NAME)



IT 793686-13-2F, Bis[4-(2-hydroxy-2-methylpropionyl)phenyl]methanol

793686-26-7F, 2-Dimethylamino-1-[4-[(dimethylamino)[4-(2-dimethylaminobutyryl)phenyl)methyl]phenyl]butan-1-one

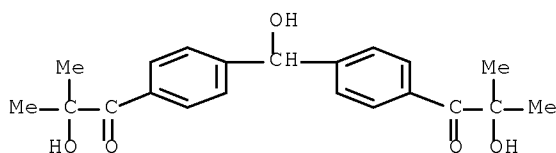
RL: CAT (Catalyst use); IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(aromatic  $\alpha$ -hydroxy ketones,  $\alpha$ -alkoxy ketones, and  $\alpha$ -amino ketones for photoinitiators with low volatility for curing of inks and coatings)



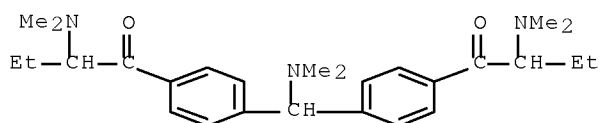
RN 793686-13-2 CAPLUS

CN 1-Propanone, 1,1'-[(hydroxymethylene)di-4,1-phenylene]bis[2-hydroxy-2-methyl- (9CI) (CA INDEX NAME)



RN 793686-26-7 CAPLUS

CN 1-Butanone, 1,1'-[[(dimethylamino)methylene]di-4,1-phenylene]bis[2-(dimethylamino)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 18 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:150225 MARPAT [Full-text](#)

TITLE: Preparation of  $\alpha$ -hydroxyketones and 1,1-disubstituted oxirane precursors.

INVENTOR(S): Sommerlade, Reinhard H.; Richter, Yvonne

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2006005682   | A2   | 20060119 | WO 2005-EP53060 | 20050629 |
| WO 2006005682   | A3   | 20070125 |                 |          |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW |      |          |                 |          |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG,   |      |          |                 |          |

KZ, MD, RU, TJ, TM

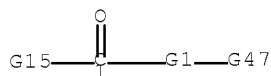
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| EP 1771430  | A2 | 20070411 | EP 2005-756675 | 20050629 |
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| EP 1813608  | A2 | 20070801 | EP 2007-107925 | 20050629 |
| EP 1813608  | A3 | 20070808 |                |          |
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| JP 2008505865   | T  | 20080228 | JP 2007-519775 | 20050629 |
| EP 1930309  | A2 | 20080611 | EP 2008-151913 | 20050629 |
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| EP 1930313  | A2 | 20080611 | EP 2008-151914 | 20050629 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR                         |    |          |                |          |

PRIORITY APPLN. INFO.: EP 2004-103236 20040708  
EP 2005-756675 20050629  
WO 2005-EP53060 20050629

OTHER SOURCE(S): CASREACT 144:150225

AB A process for the preparation of 1,1-disubstituted oxiranes comprises reaction of  $\text{AlCH}_2\text{S}+\text{RR1 X}^-$  [ $\text{R} = (\text{substituted}) \text{ alkyl}$ ;  $\text{R1} = \text{R, cycloalkyl, (substituted) Ph}$ ;  $\text{RR1} = (\text{substituted}) (\text{CH}_2)_5-6$ ;  $\text{Al} = \text{aryl}$ ;  $\text{X}^- = \text{suitable anion}$ ] with ketones in the presence of base and polar solvent. The above oxiranes may be converted into the corresponding  $\alpha$ -hydroxyketones or  $\alpha$ -aminoketones, either in 1 step by via aerobic oxidation in the presence of a transition metal catalyst, or in 2 steps by hydrolysis in the presence of an aqueous acid to the corresponding dialc. and subsequent selective oxidation. Thus,  $\text{PhCH}_2\text{Cl}$  and tetrahydrothiophene were heated in  $\text{H}_2\text{O}$  at  $85^\circ$  under stirring. The solution was cooled to  $20^\circ$  and added dropwise to a mixture of 50%  $\text{NaOH}$  and acetone in  $\text{MeOH}$  to give 2,2-dimethyl-3-phenyloxirane. The latter was heated with a mixture prepared from  $\text{Pd}$  acetate and bathocuproin in  $\text{H}_2\text{O}$  at  $100^\circ$  under  $\text{O}_2$  to give  $\text{PhCOCMe}_2\text{OH}$ .

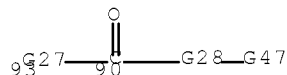
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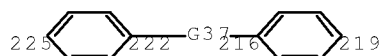
G1 = 155



G15 = 93



G27 = 225-1 219-90



G28 = 319



G37 = CHOH

G47 = OH

Patent location:

claim 17

Note:

substitution is restricted

Note:

additional substitution also claimed

L15 ANSWER 3 OF 18 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 144:283136 MARPAT Full-text

TITLE: Heat-developable photographic material and manufacture of aliphatic acid silver salt particles

INVENTOR(S): Miyamoto, Kei

PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 66 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

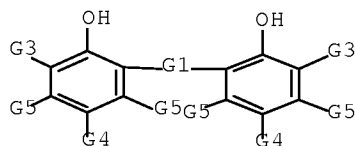
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

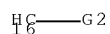
| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| -----                  | ---- | -----    | -----           | -----    |
| JP 2006065058          | A    | 20060309 | JP 2004-248451  | 20040827 |
| PRIORITY APPLN. INFO.: |      |          | JP 2004-248451  | 20040827 |

AB The material has a light-sensitive layer containing photosensitive emulsion containing the aliphatic acid Ag salt particles and Ag halide particles, a Ag ion reducing agent, a binder, and a crosslinking agent. The material is characterized by the followings: (1) ≥80 mol% of the Ag salt particle comprises Ag behenate; (2) the emulsion is IR-sensitized; and (3) the binder has 46-200° glass transition temperature The material shows improved raw-stock stability and Ag image stability.

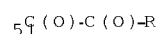
MSTR 1



G1 = 16



G2 = F  
G5 = 51

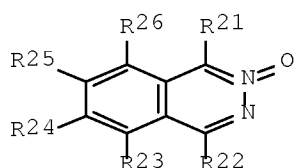


Patent location: claim 2

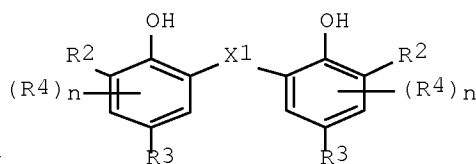
L15 ANSWER 4 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 143:163015 MARPAT Full-text  
 TITLE: Heat-developable photographic materials forming  
 high-density stable images with good silver color and  
 low fog  
 INVENTOR(S): Goto, Shigeto; Morita, Kiyokazu; Usakawa, Yasushi  
 PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 89 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| -----                  | ---- | -----    | -----           | -----    |
| JP 2005208103          | A    | 20050804 | JP 2004-11507   | 20040120 |
| PRIORITY APPLN. INFO.: |      |          | JP 2004-11507   | 20040120 |

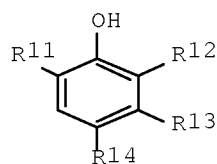
GI



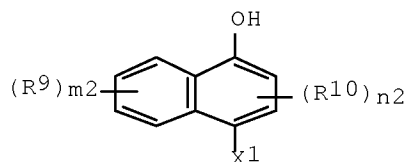
I



II



III

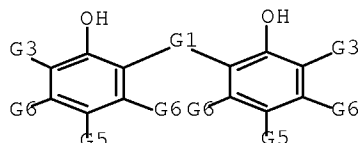


IV

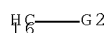
AB The materials have, on supports, imaging layers comprising organic Ag salts,  
 Ag halides (with average diameter 10-50 nm and 55-100 nm; chemical sensitized

with chalcogen compds.), binders containing 55-100% hydrophobic binders and compds. I (R21-R26 = H, substituent), and reductants [e.g., II (X1 = chalcogen atom, CHR1; R1 = H, halo, alkyl, alkenyl, aryl, heterocyclic; R2 = alkyl; R3 = H, substituent; R4 = substituent; m, n = 0-2)]. The materials may contain compds. III (R11 = alkyl; R1 = H, alkyl, acylamino; R11, R12 ≠ 2-hydroxyphenylmethyl; R13 = H, alkyl; R14 = substituent) and/or IV or V (X1, X2 = H, substituent; R9-R11 = H, substituent; m2, p2 = 0-4; n2 = 0-2).

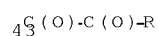
MSTR 2



G1 = 16



G2 = F  
G6 = 43

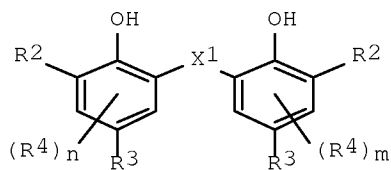


Patent location: claim 2  
Note: additional ring formation also claimed  
Note: substitution is restricted

L15 ANSWER 5 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 142:382079 MARPAT Full-text  
TITLE: Heat-developable photographic films and method for image formation using the same  
INVENTOR(S): Goto, Shigeto  
PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 64 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2005091989          | A    | 20050407 | JP 2003-327466  | 20030919 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-327466  | 20030919 |

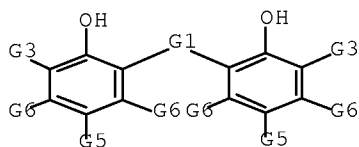
GI



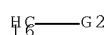
I

AB The title film has an image forming layer containing organic silver salts, silver halides, a binder, and reducing agent on a support, wherein the reducing agent has general structure I ( $X1 = \text{chalcogen, CHR1}$ ;  $R1 = \text{H, halo, alkyl, etc.}$ ;  $R2 = \text{alkyl}$ ;  $R3-4 = \text{H, substituent}$ ;  $m, n = \text{integer } 0-2$ ), wherein a fluoro compound, which has an alkyl group with  $C \geq 2$  and with  $F \leq 11$  and anionic or nonionic hydrophilic group, is disposed on the support, and wherein the ratio( $R_z(E)$ )/( $R_z(B)$ ) of the 10 points surface roughness of photog. side( $R_z(E)$ ) and the back( $R_z(B)$ ) is 0.1-0.7. The film shows good conveyance and provides images of high d., good storageability, and homogeneous d.

MSTR 1

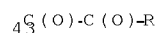


G1 = 16



G2 = F

G6 = 43



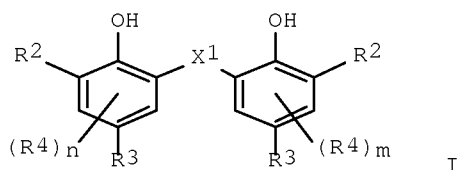
Patent location: claim 1  
 Note: additional ring formation also claimed  
 Note: substitution is restricted

L15 ANSWER 6 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 142:382088 MARPAT Full-text  
 TITLE: Heat-developable photosensitive material and method of forming image using the same  
 INVENTOR(S): Goto, Shigeto  
 PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 66 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

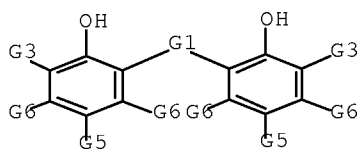
| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2005091843          | A    | 20050407 | JP 2003-325914  | 20030918 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-325914  | 20030918 |

GI

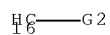


AB Disclosed is a heat-developable photosensitive material containing a reducing agent I ( $X1$  = chalcogen atom,  $CHR1$ ;  $R1$  = H, halo, alkyl; etc.;  $R2$  = alkyl;  $R3$  = H, substituent;  $R4$  = substituent; and  $m, n$  = integer  $\geq 2$ ) in a photosensitive layer formed on a support and having an outermost layer on the image-forming side which is characterized by  $0.10 \leq Rz(E)/Rz(B) \leq 0.50$  ( $Rz(E)$  = 10-point average surface roughness of the outermost layer; and  $Rz(B)$  = 10-point average surface roughness of the back layer).

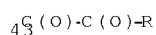
MSTR 1



G1 = 16



G2 = F  
 G6 = 43



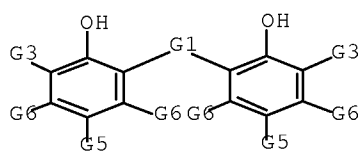
Patent location: claim 1  
 Note: additional ring formation also claimed  
 Note: substitution is restricted

L15 ANSWER 7 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 142:103051 MARPAT Full-text  
 TITLE: Heat-developable photographic materials with high density and good image stability and silver tone, and image formation method using them  
 INVENTOR(S): Goto, Shigeto  
 PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 83 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

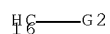
| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2005003858          | A    | 20050106 | JP 2003-166251  | 20030611 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-166251  | 20030611 |

AB The photog. materials contain organic Ag salts, Ag halides, binders, and reducing agents AX1B [A, B = (un)substituted 2-OH-3-R2-Ph; X1 = chalcogen, CHR1; R1 = H, halo, alkyl, alkenyl, aryl, heteroring; R2 = alkyl; ≥1 of R2 = secondary or tertiary alkyl; substituent = any group substitutable on benzene ring] and yellow leuco dyes R123NX12Cp (R123 = CONHR124, COR124, CO2R124; R124 = alkyl, aryl, heteroring; X12 = aryl, heteroring; Cp = coupler residue). Heat-developable photog. materials containing yellow couplers and developing agents that react with the couplers to form color images are also claimed. The photog. materials may further contain fluorosurfactants.

MSTR 1

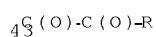


G1 = 16



G2 = halo

G6 = 43



Patent location: claim 1



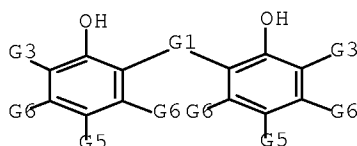
Note: additional ring formation also claimed  
 Note: substitution is restricted

L15 ANSWER 8 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 142:103050 MARPAT Full-text  
 TITLE: Heat-developing photographic material with high  
 density and good image stability and silver tone, and  
 image formation method using them  
 INVENTOR(S): Goto, Shigeto; Morita, Kiyokazu  
 PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 98 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

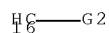
| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2005003857          | A    | 20050106 | JP 2003-166250  | 20030611 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-166250  | 20030611 |

AB The photog. material having an image formation layer that comprises organic Ag salts, Ag halides, binders, and reducing agents AX1B [A, B = (un)substituted 2-OH-3-R2-Ph; X1 = chalcogen, CHR1; R1 = H, halo, alkyl, alkenyl, aryl, heteroring; R2 = alkyl; ≥1 of R2 = secondary or tertiary alkyl; substituent = any group substitutable on benzene ring] contains ≥2 different types of couplers selected from yellow, magenta, and cyan couplers. Heat-developable photog. materials containing ≥2 different types of dyes selected from yellow, magenta, and cyan leuco dyes are also claimed. The photog. materials may further contain fluorosurfactants.

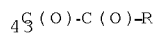
MSTR 1



G1 = 16



G2 = halo  
 G6 = 43



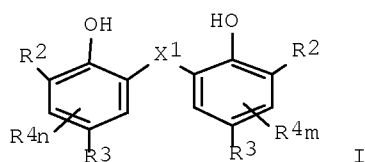
Patent location: claim 1  
 Note: additional ring formation also claimed

Note: substitution is restricted

L15 ANSWER 9 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 142:65196 MARPAT Full-text  
 TITLE: Heat-developable photographic materials containing  
 bisphenol compound reducing agent  
 INVENTOR(S): Goto, Shigeto  
 PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 65 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

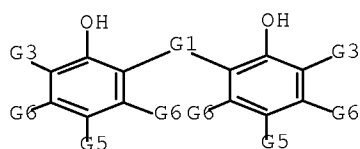
| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2004361461          | A    | 20041224 | JP 2003-156394  | 20030602 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-156394  | 20030602 |

GI



AB The material comprises a support coated with an image forming layer containing organic Ag salt, Ag halide, binder, and a reducing agent I [X1 = chalcogen, CHR1; R1 = H, halo, alkyl, alkenyl, aryl; heterocycle; R2 = alkyl, ≥1 of R2 = sec- or tert-alkyl; R3 = H, substituent; R4 = substituent; m, n = 0-2], and contains (R9X3CO)CR11(ZM+Y-)(CH2)pCR12R13(COX4R10) [R9, R10 = (un)substituted alkyl, ≥1 of R9 and R10 = fluoroalkyl; R11, R12, R13 = H, substituent; X3-4, Z = divalent linkage, bond; M+ = cationic substituent; Y- = counter anion; p = 0,1] in one of the layers. The material shows good conveyance, gives high d. and low fog images, and fingerprint stain is prevented.

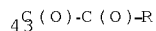
MSTR 1



G1 = 16



G2 = halo  
G6 = 43



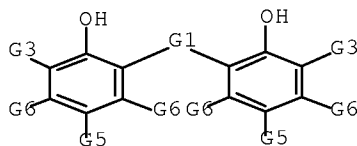
Patent location: claim 1  
Note: additional ring formation also claimed  
Note: substitution is restricted

L15 ANSWER 10 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 142:45827 MARPAT Full-text  
TITLE: Heat-developable photographic material containing  
bisphenol compound and fluorine surfactant and image  
formation method using it  
INVENTOR(S): Goto, Shigeto  
PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 62 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

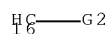
| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2004354461          | A    | 20041216 | JP 2003-149028  | 20030527 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-149028  | 20030527 |

AB The material has at least an image-forming layer (A) containing an organic Ag salt, a Ag halide, a binder, and the compound AX1B [A, B = (un)substituted 2-OH-3-R2-5-R3-Ph; X1 = chalcogen, CHR1; R1 = H, halo, alkyl, alkenyl, aryl, heterocycle; R2 = alkyl;  $\geq 1$  R2 = secondary or tertiary alkyl; R3 = H, substituent; R4 = substituent] as a reducing agent and  $\geq 1$  layer (B) containing the surfactant X2CH(CHX3COOR5)COO(CH2)nRf (R5 = C6-24 (un)substituted alkyl; Rf = C1-6 perfluoroalkyl; X2, X3 = H, SO3M; M = cation; n = 1-6) on a support on the same or opposite side of A. It satisfies that  $R_z(E)/R_z(B) = 0.1-0.7$  [ $R_z(E)$ ,  $R_z(B)$  = 10-point-average roughness of uppermost surfaces on the same and opposite sides of A, resp.]. Images are formed by heating the material at conveying speed 10-200 mm/s at a development site, between a material-supplying site and an exposing site, and at an imagewise exposing site. The material shows high d., reduced fog increase with age, improved traveling properties, and reduced d. unevenness on heat development.

MSTR 1

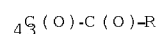


G1 = 16



G2 = halo

G6 = 43

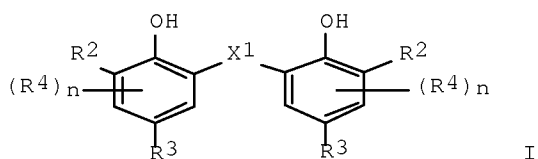


Patent location: claim 2  
 Note: additional ring formation also claimed  
 Note: substitution is restricted

L15 ANSWER 11 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 142:13611 MARPAT Full-text  
 TITLE: Heat-developable photographic material containing  
 bisphenol derivative reducing agent and magenta leuco  
 dye and image formation  
 INVENTOR(S): Goto, Shigeto; Morita, Kiyokazu  
 PATENT ASSIGNEE(S): Konica Minolta Medical & Graphic, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 97 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2004334087          | A    | 20041125 | JP 2003-132914  | 20030512 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-132914  | 20030512 |

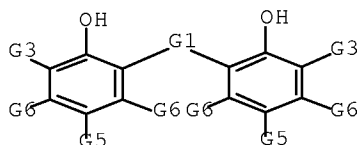
GI



AB The material has an image forming layer containing an organic Ag salt, a Ag halide, a binder, the bisphenol derivative reducing agent I (X1 = chalcogen atom, CHR1; R1 = H, halo, alkyl, alkenyl, aryl, heterocycle; R2 = alkyl; R3 = H, group to be substituted to benzene; R4 = group to be substituted to benzene; m, n = 0-2), and (1) the magenta dye forming leuco dye or (2) a magenta coupler and a color developer. It is processed at 10-200 mm/s conveying speed at a developing unit, between a material feeding unit and an

imagewise exposing unit, and at the imagewise exposing unit, resp. by using a heat-developing device. It shows high d. and improved Ag tone, image stability, traveling properties, and environmental suitability, preventing d. unevenness.

MSTR 1

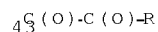


G1 = 16



G2 = halo

G6 = 43

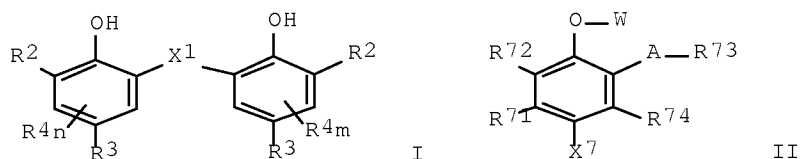


Patent location: claim 2  
 Note: additional ring formation also claimed  
 Note: substitution is restricted

L15 ANSWER 12 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 141:372712 MARPAT Full-text  
 TITLE: Heat-developable photographic material containing reducing agent and coupler, and image-forming method  
 INVENTOR(S): Goto, Shigeto  
 PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 79 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

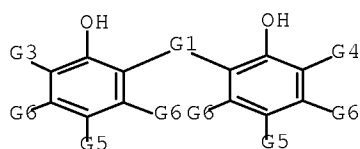
| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2004294924          | A    | 20041021 | JP 2003-89351   | 20030327 |
| US 20040229175         | A1   | 20041118 | US 2004-806841  | 20040323 |
| US 7163782             | B2   | 20070116 |                 |          |
| US 20060177783         | A1   | 20060810 | US 2006-401344  | 20060410 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-89350   | 20030327 |
|                        |      |          | JP 2003-89351   | 20030327 |
|                        |      |          | US 2004-806841  | 20040323 |

GI



AB Disclosed is the heat-developable photog. material comprising an organic Ag salt, Ag halide, a binder, a reducing agent, a coupler, and a developing agent for forming a color upon reaction with the coupler, wherein the reducing agent includes a compound represented by I ( $X1$  = chalcogen atom,  $CHR1$ ;  $R1$  = H, halo, alkyl, etc.;  $R2$  = alkyl;  $R3$  = H, substituent;  $R4$  = substituent; and  $m, n = 0-2$ ), the coupler includes II ( $R71$  = H, halo, alky, etc.;  $A$  =  $NHCO$ ,  $CONH$ , etc.;  $R73$  = alkyl, heterocyclyl;  $W$  = H, etc.;  $R72, R74$  = H, halo, alkyl, alkoxy, etc.; and  $X7$  = H, leaving group), and an image gives the sum of the maximum d. 0.01-0.50 at the maximum absorption wavelength of the image formed by the reaction of the developing agent and the coupler. Also disclosed is the process which is carried out at speeds of 10-200 mm/s at the heat-development section, 10-200 mm/s between the film supplying section and the exposure section, and 10-200 mm/s at the image exposure section. The use of the compound provided excellent high temperature storage stability.

MSTR 1



G1 = 16

$\text{H}_6 - \text{G}_2$

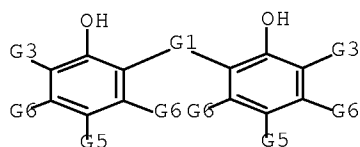
G2 = F  
G6 = 43

$4\text{S}(\text{O})-\text{C}(\text{O})-\text{R}$

Patent location:  
Note:

claim 1  
additional ring formation also claimed

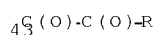
MSTR 3



G1 = 16



G2 = F  
G6 = 43

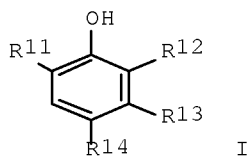


Patent location: claim 2  
Note: additional ring formation also claimed

L15 ANSWER 13 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 141:372708 MARPAT Full-text  
TITLE: Heat-developable photographic material and image-forming method  
INVENTOR(S): Goto, Shigeto  
PATENT ASSIGNEE(S): Konica Minolta Holdings, Inc., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 79 pp.  
CODEN: JKXXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| JP 2004294923          | A    | 20041021 | JP 2003-89350   | 20030327 |
| US 20040229175         | A1   | 20041118 | US 2004-806841  | 20040323 |
| US 7163782             | B2   | 20070116 |                 |          |
| US 20060177783         | A1   | 20060810 | US 2006-401344  | 20060410 |
| PRIORITY APPLN. INFO.: |      |          | JP 2003-89350   | 20030327 |
|                        |      |          | JP 2003-89351   | 20030327 |
|                        |      |          | US 2004-806841  | 20040323 |

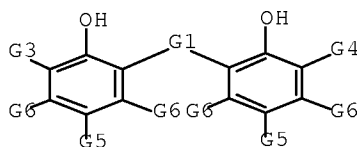
GI



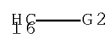
I

AB Disclosed is the heat-developable photog. material comprising an organic Ag salt, Ag halide, a binder, a reducing agent, a coupler, a developing agent for forming a color upon reaction with the coupler, and a compound represented by I (R11 = alkyl; R12 = H, alkyl, acylamino; R13 = H, alkyl; and R14 = substituent) and giving the sum of the maximum d. 0.01-0.50 at the maximum absorption wavelength of a dye image formed by the reaction of the developing agent and the coupler. Also disclosed is the process which is carried out at speeds of 10-200 mm/s at the heat-development section, 10-200 mm/s between the film supplying section and the exposure section, and 10-200 mm/s at the image exposure section. The use of the compound provided excellent high temperature storage stability.

MSTR 3

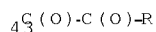


G1 = 16



G2 = F

G6 = 43



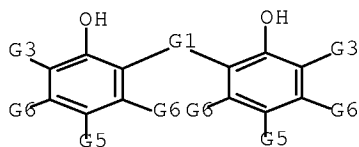
Patent location:

claim 4

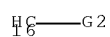
Note:

additional ring formation also claimed

MSTR 4



G1 = 16



G2 = F



G6 = 43

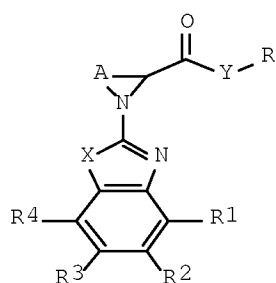
 $4\text{S}(\text{O})\text{-C}(\text{O})\text{-R}$ 

Patent location: claim 5  
 Note: additional ring formation also claimed

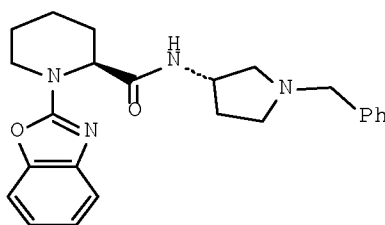
L15 ANSWER 14 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 136:309922 MARPAT Full-text  
 TITLE: Preparation of benzoxazolyl piperidines and analogs as  
 rotamase enzyme inhibitors  
 INVENTOR(S): Kemp, Mark Ian; Palmer, Michael John; Sanner, Mark  
 Allen; Wythes, Martin James  
 PATENT ASSIGNEE(S): Pfizer Inc., USA  
 SOURCE: U.S., 43 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| US 6372736             | B1   | 20020416 | US 1999-358107  | 19990721 |
| US 6562964             | B1   | 20030513 | US 2002-56901   | 20020123 |
| PRIORITY APPLN. INFO.: |      |          | GB 1998-15880   | 19980721 |
|                        |      |          | US 1999-358107  | 19990721 |

GI



I

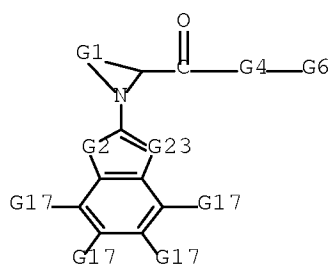


II

AB Title compds. [I; A = (un)substituted unbranched C3-C5 alkylene; X and Y = independently O, S, NH, or N-alkyl; R = (un)substituted, C-linked, 4- to 6-membered, non-aromatic, heterocyclic ring containing 1 N; R<sub>1</sub>-R<sub>4</sub> = independently H, halo, (cyclo)alkyl, haloalkyl, (cyclo)alkoxy, CONR<sub>5</sub>R<sub>6</sub>, cycloalkylalkylene, cycloalkylalkoxy, or CO<sub>2</sub>R<sub>7</sub>; R<sub>5</sub> and R<sub>6</sub> = independently H, alkyl, or taken together = unbranched alkylene; R<sub>7</sub> = alkyl] were prepared as rotamase enzyme inhibitors, particularly FKBP-12 and FKBP-52 inhibitors. Thus, (2S)-1-(1,3-benzoxazol-2-yl)-2-piperidinecarboxylic acid (preparation given) was amidated with (3S)-1-benzylpyrrolidine-3-ylamine in the presence of 1-hydroxybenzotriazole hydrate and 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide.HCl in CH<sub>2</sub>Cl<sub>2</sub> to yield II. Twenty-one compds. of the

invention demonstrated inhibitory activity against human recombinant FKBP-12 in a coupled colorimetric PPIase in vitro assay with IC50 values below 1200 nM, and II inhibited the rotamase enzyme FKBP-52 in a similar assay with IC50 = 2790 nM. As neurotrophic agents, the invention compds. promote neuronal regeneration and outgrowth and are useful for the treatment of neurodegenerative diseases or other disorders involving nerve damage.

MSTR 1



- G6 = heterocycle <containing 4-6 atoms, 1 heteroatom, 1 N (no other heteroatoms), 3-5 C, attached through 1 or more C, 4- to 6-membered monocyclic ring> (opt. substd. by (1-3) G7)
- G7 = alkyl <containing 1-6 C> (opt. substd. by (1-2) G12)
- G8 = alkoxy <containing 1-6 C> / 21

$$2\text{G}(\text{O})\text{-G10}$$

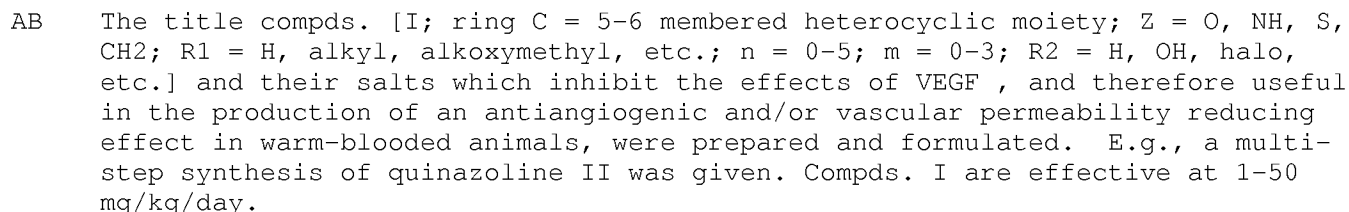
G12 = 29

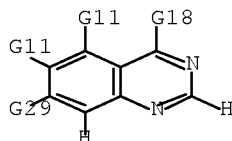
$$2\text{G}(\text{O})\text{-G16}$$

G16 = Ph (opt. substd. by (1-3) G8)  
 Patent location: claim 1

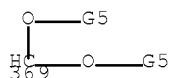
REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 15 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 132:293771 MARPAT Full-text  
 TITLE: Preparation of quinazolines as VEGF receptor tyrosine kinase inhibitors  
 INVENTOR(S): Hennequin, Laurent Francois Andre; Pasquet, Georges  
 PATENT ASSIGNEE(S): Zeneca Limited, UK; Zeneca-Pharma S.A.  
 SOURCE: PCT Int. Appl., 107 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

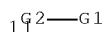
GI



G1 = heterocycle <containing 1-3 heteroatoms,  
zero or more N, zero or more O,  
zero or more S (no other heteroatoms),  
(1) 5- or more membered ring, (1) up to 6-membered ring>  
(opt. substd. by (up to 5) G3)  
G3 = alkyl <containing 2-4 C> (substd. by (up to 5) G9)  
G9 = Ph (opt. substd. by (up to 5) G10)  
G10 = 369 / NH2 / CO2H



G18 = 11



Derivative: or salts  
Patent location: claim 1  
Note: also incorporates claim 15, formulas III, V, and IX

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 16 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 132:137377 MARPAT Full-text  
TITLE: Preparation of benzoxazolyl piperidines and analogs as  
rotamase enzyme inhibitors  
INVENTOR(S): Kemp, Mark Ian; Palmer, Michael John; Sanner, Mark  
Allen; Wythes, Martin James  
PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc.  
SOURCE: PCT Int. Appl., 131 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 2000005232   | A1   | 20000203 | WO 1999-IB1211  | 19990628 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,<br>DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,<br>JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,<br>MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,<br>TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW |      |          |                 |          |

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

|            |    |          |                 |          |
|------------|----|----------|-----------------|----------|
| CA 2338214 | A1 | 20000203 | CA 1999-2338214 | 19990628 |
| CA 2338214 | C  | 20060801 |                 |          |
| AU 9942858 | A  | 20000214 | AU 1999-42858   | 19990628 |
| AU 765925  | B2 | 20031002 |                 |          |
| BR 9912330 | A  | 20010417 | BR 1999-12330   | 19990628 |
| EP 1100797 | A1 | 20010523 | EP 1999-963123  | 19990628 |
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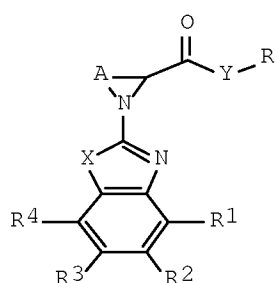
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE,  
 SI, LT, LV, FI, RO

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|----------------|----|----------|------------------|----------|
| TR 200100135   | T2 | 20010621 | TR 2001-135      | 19990628 |
| HU 2001003413  | A2 | 20020529 | HU 2001-3413     | 19990628 |
| HU 2001003413  | A3 | 20021028 |                  |          |
| EE 200100044   | A  | 20020617 | EE 2001-44       | 19990628 |
| JP 2002521382  | T  | 20020716 | JP 2000-561188   | 19990628 |
| JP 3795329     | B2 | 20060712 |                  |          |
| NZ 508838      | A  | 20021220 | NZ 1999-508838   | 19990628 |
| AT 233261      | T  | 20030315 | AT 1999-963123   | 19990628 |
| ES 2191484     | T3 | 20030901 | ES 1999-963123   | 19990628 |
| NZ 522270      | A  | 20040326 | NZ 1999-522270   | 19990628 |
| CN 1511837     | A  | 20040714 | CN 2003-10123907 | 19990628 |
| CN 1611499     | A  | 20050504 | CN 2004-10039974 | 19990628 |
| TW 229672      | B  | 20050321 | TW 1999-88111868 | 19990713 |
| NO 2001000322  | A  | 20010315 | NO 2001-322      | 20010119 |
| HR 2001000052  | A1 | 20011231 | HR 2001-52       | 20010119 |
| MX 2001PA00829 | A  | 20010930 | MX 2001-PA829    | 20010123 |
| BG 105254      | A  | 20011031 | BG 2001-105254   | 20010214 |
| JP 2004002374  | A  | 20040108 | JP 2003-105099   | 20030409 |

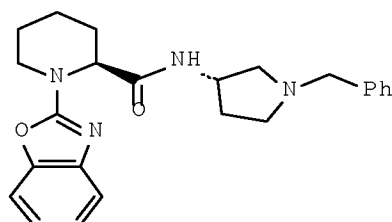
PRIORITY APPLN. INFO.:

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|----------------|----------|
| GB 1998-15880  | 19980721 |
| JP 2000-561188 | 19990628 |
| NZ 1999-508838 | 19990628 |
| WO 1999-IB1211 | 19990628 |

GI



I

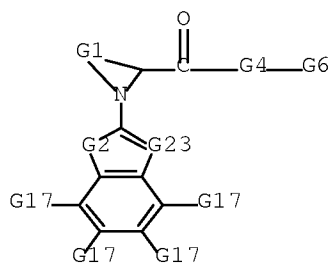


II

AB Title compds. (I) [wherein A = (un)substituted unbranched C3-C5 alkylene; X and Y = independently O, S, NH, or N-alkyl; R = (un)substituted, C-linked, 4- to 6-membered, non-aromatic, heterocyclic ring containing 1 N; R<sup>1</sup>-R<sup>4</sup> = independently H, halo, (cyclo)alkyl, haloalkyl, (cyclo)alkoxy, CONR<sup>5</sup>R<sup>6</sup>, cycloalkylalkylene, cycloalkylalkoxy, or CO<sub>2</sub>R<sup>7</sup>; R<sup>5</sup> and R<sup>6</sup> = independently H, alkyl, or taken together = unbranched alkylene; R<sup>7</sup> = alkyl] were prepared as rotamase enzyme inhibitors, particularly FKBP-12 and FKBP-52 inhibitors. Thus, (2S)-1-(1,3-benzoxazol-2-yl)-2-piperidinecarboxylic acid (preparation given) was amidated with (3S)-1-benzylpyrrolidine-3-ylamine in the presence of

1-hydroxybenzotriazole hydrate and 1-(3- dimethylaminopropyl)-3-ethylcarbodiimide.HCl in CH<sub>2</sub>Cl<sub>2</sub> to yield II. Twenty-one compds. of the invention demonstrated inhibitory activity against human recombinant FKBP-12 in a coupled colorimetric PPIase in vitro assay with IC<sub>50</sub> values below 1200 nM, and II inhibited the rotamase enzyme FKBP-52 in a similar assay with IC<sub>50</sub> = 2790 nM. As neurotrophic agents, the invention compds. promote neuronal regeneration and outgrowth and are useful for the treatment of neurodegenerative diseases or other disorders involving nerve damage.

MSTR 1



- G6 = heterocycle <containing 4-6 atoms, 1 heteroatom, 1 N (no other heteroatoms), 3-5 C, attached through 1 or more C, 4- to 6-membered monocyclic ring> (opt. substd. by (1-3) G7)
- G7 = alkyl <containing 1-6 C> (opt. substd. by (1-2) G12)
- G8 = alkoxy <containing 1-6 C> / 21

 $2\text{G}^{(O)}\text{-G10}$ 

G12 = 29

 $2\text{G}^{(O)}\text{-G16}$ 

G16 = Ph (opt. substd. by (1-3) G8)

Derivative: or pharmaceutically acceptable salts

Patent location: claim 1

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 17 OF 18 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 127:190650 MARPAT [Full-text](#)

TITLE: Preparation of dihydropyridines, pyridines, benzopyranones, and triazoloquinazolines for use as adenosine receptor antagonists

INVENTOR(S): Jacobson, Kenneth A.; Jiang, Ji-Long; Kim, Yong-Chul; Karton, Yishai; Van Rhee, Albert M.

PATENT ASSIGNEE(S): United States Dept. of Health and Human Services, USA

SOURCE: PCT Int. Appl., 138 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

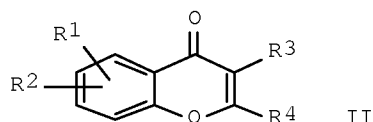
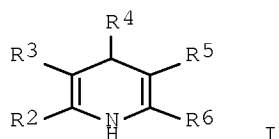
English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

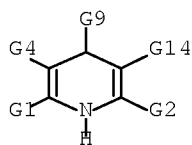
| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 9727177  | A2   | 19970731 | WO 1997-US1252  | 19970129 |
| WO 9727177  | A3   | 19971113 |                 |          |
| W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN |      |          |                 |          |
| RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
| CA 2244774  | A1   | 19970731 | CA 1997-2244774 | 19970129 |
| CA 2244774  | C    | 20061017 |                 |          |
| AU 9722466  | A    | 19970820 | AU 1997-22466   | 19970129 |
| AU 709190   | B2   | 19990826 |                 |          |
| EP 885192   | A1   | 19981223 | EP 1997-905627  | 19970129 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI   |      |          |                 |          |
| JP 2000516910   | T    | 20001219 | JP 1997-527065  | 19970129 |
| US 6066642  | A    | 20000523 | US 1998-117598  | 19981207 |
| AU 9957171  | A    | 20000217 | AU 1999-57171   | 19991101 |
| AU 755525   | B2   | 20021212 |                 |          |
| PRIORITY APPLN. INFO.:  |      |          | US 1996-10737P  | 19960129 |
|   |      |          | US 1996-21191P  | 19960703 |
|   |      |          | WO 1997-US1252  | 19970129 |

GI



AB Dihydropyridines I [R2 = alkyl, haloalkyl, phenyl; R3 = alkyl, alkoxy, carbonyl, alkylthiocarbonyl, alkylaminocarbonyl, alkyloxy; R2R3 = ring with 2 - 4 methylene groups; R4 = alkyl, aryl, alkenyl, alkylamino, alkyloxy, alkynyl; R5 = alkyloxycarbonyl, aryl, alkylthio, hydroxy, alkylamino; R6 = Ph, naphthyl], benzopyranones II [R1 = R3 = H, hydroxy, alkyloxy, alkylcarbonyloxy; R2 = H, hydroxy, alkyloxy, alkylcarbonyloxy, alkenyloxy; R4 = Ph, styryl, phenylbutadienyl, phenylacetylenyl, iminomethyl], as well as pyridines and triazoloquinazolines, were prepared for pharmaceutical uses which involve blocking adenosine receptors such as treatment of cancer, inflammation, and asthma. Thus, 3,5,7- trimethoxyflavone was prepared by methylation of galangin with di-Me sulfate and gave Ki values of  $0.509 \pm 0.049$ ,  $6.45 \pm 1.48$ , and  $1.21 \pm 0.30$   $\mu\text{M}$  for A1, A2a, A3 receptors, resp., when tested for displacement of specific [ $^3\text{H}$ ]PIA binding in rat brain membranes.

MSTR 1

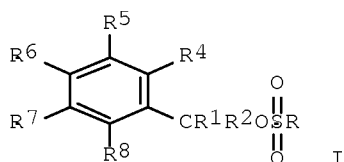


G14 = alkoxy carbonyl <containing 1-6 C>  
 (opt. substd. by G15)  
 G15 = Ph (opt. substd. by 1 or more G16)  
 G16 = CF<sub>3</sub> / NO<sub>2</sub> / alkylaminocarbonyl <containing 1-6 C>  
 (substd. by NH<sub>2</sub>)  
 Derivative: or pharmaceutically acceptable salts  
 Patent location: claim 1

L15 ANSWER 18 OF 18 MARPAT COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 121:267857 MARPAT Full-text  
 TITLE: Benzyl-substituted photoactive compounds and  
 photoresist compositions comprising same  
 INVENTOR(S): Sinta, Roger F.; Barclay, George; Rajaratnam, Martha  
 M.  
 PATENT ASSIGNEE(S): Shipley Co. Inc., USA  
 SOURCE: U.S., 9 pp.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| -----                  | ---  | -----    | -----           | -----    |
| US 5344742             | A    | 19940906 | US 1993-50920   | 19930421 |
| PRIORITY APPLN. INFO.: |      |          | US 1993-50920   | 19930421 |

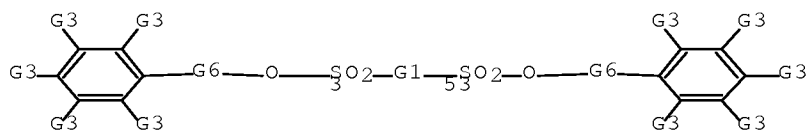
GI



AB The benzyl-substituted photoactive compds. are I [R = alkyl, alkoxy, aralkyl, and aryl; R<sup>1</sup> and R<sup>2</sup> = H, halo, cyano, alkyl, alkoxy, alkenyl, alkynyl, aralkyl, aryl; R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> and R<sup>8</sup> = H, halo, hydroxy, cyano, alkanoyl, carboxyl, sulfonyl, alkyl, alkenyl, alkynyl, aralkyl and aryl, wherein at least one of R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> and R<sup>8</sup> is other than H]. The photoactive compds. are particularly suitable for chemical amplified pos.-acting and neg.-acting compns.



MSTR 2



G3 = OH / CO<sub>2</sub>H  
 G6 = 1

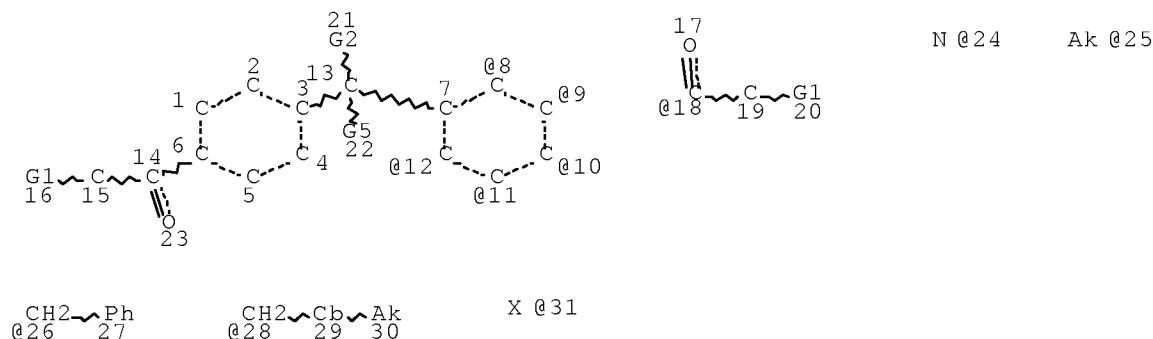


G7 = F  
 Patent location: claim 21

FILE 'HOME' ENTERED AT 15:49:06 ON 26 AUG 2008

## SEARCH HISTORY

=> d stat que l8; d his nofile  
L5 STR



VAR G1=O/24  
VAR G2=31/O/24/S  
VAR G5=H/25/26/28/PH  
VPA 18-8/9/10/11/12 U  
NODE ATTRIBUTES:  
NSPEC IS RC AT 15  
NSPEC IS RC AT 19  
NSPEC IS RC AT 24  
CONNECT IS E1 RC AT 25  
CONNECT IS E1 RC AT 30  
DEFAULT MLEVEL IS ATOM  
MLEVEL IS CLASS AT 25 29 30 31  
GGCAT IS MCY LOC UNS AT 29  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
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STEREO ATTRIBUTES: NONE  
L8 14 SEA FILE=REGISTRY SSS FUL L5

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SEARCH TIME: 00.00.01

(FILE 'HOME' ENTERED AT 15:31:15 ON 26 AUG 2008)

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13879-35-1/BI OR 141-75-3/BI OR 20176-49-2/BI OR 2778-42-9/BI

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OR 42978-66-5/BI OR 474510-57-1/BI OR 51728-26-8/BI OR
52408-84-1/BI OR 524944-71-6/BI OR 649757-97-1/BI OR 79-30-1/BI
OR 793686-09-6/BI OR 793686-10-9/BI OR 793686-11-0/BI OR
793686-12-1/BI OR 793686-13-2/BI OR 793686-14-3/BI OR 793686-15
-4/BI OR 793686-16-5/BI OR 793686-17-6/BI OR 793686-18-7/BI OR
793686-19-8/BI OR 793686-20-1/BI OR 793686-21-2/BI OR 793686-22
-3/BI OR 793686-23-4/BI OR 793686-24-5/BI OR 793686-25-6/BI OR
793686-26-7/BI OR 793686-27-8/BI OR 794567-25-2/BI OR 80067-81-
8/BI OR 80067-83-0/BI OR 822-06-0/BI OR 97949-13-8/BI)
L3      STR
L4      0 SEA SSS SAM L3
L5      STR L3
L6      0 SEA SSS SAM L5
L7      7398 SEA SSS FUL L5 EXTEND
L8      14 SEA SSS FUL L5
        SAVE TEMP L8 TRE952FULL/A
L9      14 SEA ABB=ON L8 AND L2

FILE 'CAPLUS' ENTERED AT 15:39:31 ON 26 AUG 2008
L10     1 SEA ABB=ON L8

FILE 'MARPAT' ENTERED AT 15:39:42 ON 26 AUG 2008
L11     1 SEA SSS SAM L5
        D SCAN
L12     115942 SEA SSS FUL L5 EXTEND
L13     37 SEA SSS FUL L5
L14     18 SEA ABB=ON L13/COMPLETE
        SAVE TEMP L14 TRE952MARPA/A

FILE 'STNGUIDE' ENTERED AT 15:47:50 ON 26 AUG 2008

FILE 'REGISTRY' ENTERED AT 15:48:29 ON 26 AUG 2008
        D STAT QUE L8

FILE 'CAPLUS' ENTERED AT 15:48:29 ON 26 AUG 2008
        D QUE NOS L10

FILE 'MARPAT' ENTERED AT 15:48:29 ON 26 AUG 2008
        D QUE NOS L14

FILE 'CAPLUS, MARPAT' ENTERED AT 15:48:29 ON 26 AUG 2008
L15     18 DUP REM L10 L14 (1 DUPLICATE REMOVED)
        ANSWER '1' FROM FILE CAPLUS
        ANSWERS '2-18' FROM FILE MARPAT
        D IBIB ABS HITSTR 1
        D IBIB ABS QHIT 2-18

FILE 'HOME' ENTERED AT 15:49:06 ON 26 AUG 2008
        D STAT QUE L8

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